CONTENTS OF ISIS, VOLUME 61

ARTICLES AND NOTES

An Appeal for Preservation of Archival Materials 108

Aston, Margaret: *The Fiery Trigon Conjunction: An Elizabethan Astrological Prediction* 159

Baird, A. W. S.: *Pascal's Idea of Nature* 297

Burke, John G.: *Éloge, Charles Donald O'Malley (1907–1970)* 371

Burke, John G.: *Kirk and Causality in Edinburgh, 1805* 340

Burmeister, Karl Heinz: *Rheticus' Earliest Extant Letter to Paul Eber, Commentary* 385

Carozzi, Albert V.: *Robert Hooke, Rudolf Erich Raspe, and the Concept of "Earthquakes"* 85

Churchill, Frederick B.: *Hertwig, Weismann, and the Meaning of Reduction Division circa 1890* 429

Daub, Edward E.: *Waterston, Rankine, and Clausius on the Kinetic Theory of Gases* 105

Farber, Eduard: *Errors in Chemical Identification: A Precautionary Note to the History of Chemistry* 379

Fletcher, John E.: *Astronomy in the Life and Correspondence of Athanasius Kircher* 52

Holt, Niles R.: *A Note on Wilhelm Ostwald's "Energism"* 386

Jaffe, Bernard: *The Moseley Photograph* 254

Jensen, Claus: *Identification of a Tract in an Arabic Manuscript: Eratosthenes on Two Mean Proportionals* 111

Kauffman, George B.: *Arturo Miolati (1869–1956)* 241

von Klobusitzky, Dionysio: *Contribution to the History of Paper Electrophoresis* 255

Kuhn, Dorothea: *Das Cotta-Archiv im Schiller-Nationalmuseum zu Marbach am Neckar. Korrespondenz mit deutschen Naturforschen im 19. Jahrhundert* ... 103

Lam Lay Yong: *The Geometrical Basis of Ancient Chinese Square-Root Method*.. 92

Lyon, John: *The Search for Fossil Man: Cinq Personnages à la Recherche du Temps Perdu* 68

Marx, Otto M.: *Nineteenth-Century Medical Psychology: Theoretical Problems in the Work of Griesinger, Meynert, and Wernicke* 355

McCormmach, Russell: *H. A. Lorentz and the Electromagnetic View of Nature* .. 458

O'Brien, Charles F.: Eozoön Canadense, *"The Dawn Animal of Canada"* 206

Rabinovitch, Nachum L.: *Rabbi Hasdai Crescas (1340–1410) on Numerical Infinities* 224

Rosen, Edward: *Rheticus' Earliest Extant Letter to Paul Eber* 384

Rudwick, Martin J. S.: *The Strategy of Lyell's* Principles of Geology..... 5

Shea, William R.: *Galileo, Scheiner, and the Interpretation of Sunspots* 498

Siraisi, Nancy G.: *The* Expositio Problematum Aristotelis *of Peter of Abano* 321

Snelders, H. A. M.: *The Influence of the Dualistic System of Jakob Joseph Winterl (1732–1809) on the German Romantic Era* 231

Spencer, J. Brookes: *On the Varieties of Nineteenth-Century Magneto-Optical Discovery* 34
Stuewer, Roger H.: *A Critical Analysis of Newton's Work on Diffraction* 188
Theisen, Wilfred R.: *The Monastic Manuscript Microfilm Library, Collegeville, Minnesota* 111
Victor, Stephen: *Johannes de Muris' Autograph of the* De arte mensurandi 389
White, Colin; Robert J. Hardy: *Huygens' Graph of Graunt's Data* 107
Worthen, Thomas D.: *Pneumatic Action in the Klepsydra and Empedocles' Account of Breathing* 520

BOOK REVIEWS

History of Science—George Basalla (ed.), *The Rise of Modern Science. External or Internal Factors?*, rev. by Arnold Thackray, 398; John Z. Bowers, *Western Medical Pioneers in Feudal Japan*, rev. by Florette Yen, 399; David S. Landes, *The Unbound Prometheus. Technological Change and Industrial Development in Western Europe from 17[illegible] to the Present*, A. E. Musson, Eric Robinson, *Science and Technology in the Industrial Revolution*, rev. by Arnold Thackray, 263; J. M. López Piñero, *La introducción de la ciencia moderna en España* and *Medicina, historia, sociedad. Antología de clásicos médicos*, rev. by Thomas F. Glick, 265.

Bibliography—François Russo, *Éléments de bibliographie de l'histoire des sciences et des techniques*, rev. by John Neu, 266; Joan Nelson Warnow, *A Selection of Manuscript Collections at American Repositories*, rev. by Nathan Reingold, 535.

Philosophy of Science—Peter Achinstein, Stephen F. Barker (eds.), *The Legacy of Logical Positivism*, rev. by Robert G. Colodny, 267; Boruch Brody, Nicholas Capaldi (eds.), *Science: Men, Methods, Goals*, rev. by Robert G. Wolf, 118; Enrico Cantore, *Atomic Order. An Introduction to the Philosophy of Microphysics*, rev. by Paul Forman, 535.

Scientific Institutions—A. Rupert Hall, *The Cambridge Philosophical Society. A History 1819–1969*, rev. by Walter F. Cannon, 119; Geoffrey Hellman, *Bankers, Bones, and Beetles. The First Century of the American Museum of Natural History*, rev. by Ralph W. Dexter, 119.

Scientific Instruments—Nicholas Goodison, *English Barometers 1680–1860. A History of Domestic Barometers and Their Makers*, rev. by W. E. Knowles Middleton, 120; W. E. Knowles Middleton, *Invention of the Meteorological Instruments* and *Catalog of Meteorological Instruments in the Museum of History and Technology*, rev. by Hans-Günther Körber, 400.

Humanistic Relations of Science—Malcolm A. Jeeves, *The Scientific Enterprise and Christian Faith*, rev. by Sami Hamarneh, 401; A. J. Meadows, *The High Firmament: A Survey of Astronomy in English Literature*, rev. by William Powell Jones, 121.

Mathematics—Michael J. Crowe, *A History of Vector Analysis. The Evolution of the Idea of a Vectorial System*, rev. by Elaine H. Koppelman, 122; Karl Menninger, *Number Words and Number Symbols. A Cultural History of Numbers* (trans. by Paul Broneer), rev. by A. Seidenberg, 268; Christoph J. Scriba, *The Concept of Number*, rev. by A. S. Saidan, 124; C. E. Sjöstedt (ed.), *Le Axiome de Paralleles de Euclides a Hilbert*, rev. by J. D. North, 269.

Physical Sciences—A. Albert Baker, Jr., *Unsaturation in Organic Chemistry*, rev. by Albert B. Costa, 536; F. P. Dickson, *The Bowl of Night*, rev. by Victor E. Thoren, 125; Eduard Farber, *The Evolution of Chemistry: A History of Its Ideas, Methods, and Materials*, rev. by George B. Kauffman, 126; *Historical Studies in the Physical Sciences*, Vol. I, rev. by Hans Kangro, 537; C. Truesdell, *Essays in the History of Mechanics*, rev. by Stephen G. Brush, 115.

Earth Sciences—Gordon L. Davies, *The Earth in Decay. A History of British Geomorphology, 1578–1878*, rev. by Walter F. Cannon, 127; Cecil J. Schneer (ed.), *Towards a History of Geology*, rev. by John W. Harrington, 270.

Sciences of Man—J. O. Brew (ed.), *One Hundred Years of Anthropology*, rev. by Joan T. Mark, 129; Jean Piaget, Paul Fraisse, Maurice Reuchlin, *Experimental Psychology: Its Scope*

and Method, Vol. I: *History and Method*, rev. by Josef Brožek, 402.

Medicine—John K. Crellin, *Medical Ceramics in the Wellcome Institute of the History of Medicine*, rev. by Sami Hamarneh, 130; J. F. D. Shrewsbury, *A History of Bubonic Plague in the British Isles*, rev. by Theodore M. Brown, 533.

Technology—Paul Frankl, *Principles of Architectural History: The Four Phases of Architectural Style, 1420–1900* (trans. and ed. by James F. O'Gorman), rev. by Leonard K. Eaton, 131; Otto Mayr, *Zur Frühgeschichte der technischen Regelungen*, rev. by Lynwood Bryant, 272; J. R. Pierce, *The Beginnings of Satellite Communications*, L. Marton, *Early History of the Electron Microscope*, V. F. Lenzen, *Benjamin Peirce and the U.S. Coast Survey*, rev. by James E. Brittain, 274; Wernher von Braun, Frederick I. Ordway, III, *History of Rocketry and Space Travel*, revised ed., rev. by Loyd Swenson, Jr., 404.

Ancillary Disciplines—David Kahn, *The Codebreakers. The Story of Secret Writing*, rev. by Owen Gingerich, 405.

Prehistory—Giorgio de Santillana, Hertha von Dechend, *Hamlet's Mill. An Essay on Myth and the Frame of Time*, rev. by Lynn White, jr., 540.

Classical Antiquity—D. R. Dicks, *Early Greek Astronomy to Aristotle*, rev. by Victor E. Thoren, 541; Jacob Klein, *Greek Mathematical Thought and the Origin of Algebra*, rev. by Christoph J. Scriba, 132; Carl Roebuck (ed.), *The Muses at Work. Arts, Crafts, and Professions in Ancient Greece and Rome*, rev. by Walter F. Snyder, 406; Rudolf E. Siegel, *Galen's System of Physiology and Medicine*, rev. by Diana Dyason, 133.

Middle Ages—Mirko Dražen Grmek (ed.), *The Medieval Treatises on Falconry and Hippiatry of Jacobellus Vitturi from Trogir*, rev. by Vern L. Bullough, 542; Chauncey Wood, *Chaucer and the Country of the Stars: Poetic Uses of Astrological Imagery*, rev. by William Powell Jones, 543.

Islamic and Related Cultures—Gad B. Sarfatti, *Mathematical Terminology in Hebrew Scientific Literature of the Middle Ages*, rev. by Martin Levey, 135.

India—O. P. Jaggi, *History of Science and Technology in India*, Vol. I: *Dawn of Indian Technology (Pre- and Proto-Historic Period)* and Vol. II: *Dawn of Indian Science (Vedic and Upanishadic Period)*. rev. by David Pingree, 407.

The Far East—Nathan Sivin, *Chinese Alchemy: Preliminary Studies*, rev. by Karl Lo, 136; Kurt Vogel (trans.), *Chiu chang suan shu. Neun Bücher arithmetischer Technik. Ein chinesisch Rechenbuch für den praktischen Gebrauch aus der frühen Hanzeit (202 v. Chr. bis 9 n. Chr.)*, rev. by Ulrich Libbrecht, 408.

Renaissance & Reformation—Karl Heinz Burmeister, *Georg Joachim Rhetikus, 1514–1574. Eine Bio-Bibliographie*. Band III: *Briefwechsel*, rev. by Edward Rosen, 137; Maurice Clavelin, *La Philosophie naturelle de Galilée*, rev. by Stillman Drake, 275; Gioanventura Rosetti, *The Plictho* (trans. by Sidney M. Edelstein and Hector C. Borghetty), rev. by Ladislao Reti, 277.

Seventeenth & Eighteenth Centuries—Edmund Berkeley, Dorothy Smith Berkeley, *Dr. Alexander Garden of Charles Town*, rev. by Theodore W. Jeffries, 409; James H. Cassedy, *Demography in Early America. Beginnings of the Statistical Mind, 1600–1800*, rev. by Frank N. Egerton III, 410; Maurice Crosland (ed.), *Science in France in the Revolutionary Era, Described by Thomas Bugge*, rev. by Rhoda Rappaport, 412; R. J. Forbes (ed.), *Martinus van Marum. Life and Work*, Vol. I rev. by John L. Heilbron, Vol. II rev. by Roy A. Rauschenberg, 544; Heinz Goerke, *Carl von Linné, Arzt, Naturforscher, Systematiker*, rev. by Jacques Roger, 278; R. W. Harris, *Reason and Nature in the Eighteenth Century*, rev. by G. S. Rousseau, 280; Benoît de Maillet, *Telliamed, or Conversations Between an Indian Philosopher and a French Missionary on the Diminution of the Sea* (ed. by Albert V. Carozzi), rev. by Alexander M. Ospovat, 139; Frank E. Manuel, *A Portrait of Isaac Newton*, rev. by Robert H. Kargon, 141: Charles Minguet, *Alexandre de Humboldt, historien et géographe de l'Amérique espagnole 1799–1804*, rev. by John Leighly, 546; Conor Reilly, S.J., *Francis Line, S.J. An Exiled English Scientist 1595–1675*, rev. by John L. Heilbron, 397; Colin A. Ronan, *Edmond Halley: Genius in Eclipse*, rev. by Deborah Jean Warner, 547; Barbara J. Shapiro, *John Wilkins 1614–1672: An Intellectual Biography*, rev. by William Powell Jones, 413.

Nineteenth & Twentieth Centuries—Louis Agassiz, *Studies on Glaciers, Preceded by the Discourse of Neuchâtel* (trans. by Albert V. Carozzi), rev. by Leroy E. Page, 142; A. J. Ayer, *The Origins of Pragmatism*, rev. by Donald R. Koehn, 143; Lawrence Badash (ed.), *Rutherford and Boltwood: Letters on Radioactivity*, rev. by Norman Feather, 414; Adrian Arthur Bennett, *John Fryer. The Introduction of Western Science and Technology into Nineteenth-Century China*, rev. by Nathan Sivin, 280; Günther Buttman, *The Shadow of the Telescope: A Biography of John Herschel*, rev. by Ronald L. Weitzel, 415. Walter Keene Ferguson, *Geology and Politics in Frontier Texas 1845–1909*, rev. by Michele L. Aldrich, 417; Michael T. Ghiselin, *The Triumph of the Darwinian Method*, rev. by Hugh Lehman, 144;

P. A. Y. Gunter (ed. & trans.), *Bergson and the Evolution of Physics*, rev. by Richard H. Schlagel, 548; *The Interpretation of Animal Form. Essays by Jeffries Wyman, Carl Gegenbaur, E. Ray Lankester, Henri Lacaze Duthiers, Wilhelm His and H. Newell Martin 1868–1888* (trans. by William Coleman), rev. by G. R. Uschmann, 145; Geraldine Jonçich, *The Sane Positivist: A Biography of Edward L. Thorndike*, rev. by Joan N. Burstyn, 549; George B. Kauffman, *Alfred Werner, Founder of Coordination Chemistry* and (ed.), *Werner Centennial* and (ed.), *Classics in Coordination Chemistry, Part 1: The Selected Papers of Alfred Werner*, rev. by Aaron J. Ihde, 282; Robert Ryal Miller, *For Science and National Glory. The Spanish Scientific Expedition to America 1862–1866*, rev. by David Wade Chambers, 283; Alan Moorehead, *Darwin and the Beagle*, rev. by Conway Zirkle, 284; Mary C. Rabbitt, Edwin D. McKee, *et al.*, *The Colorado River Region and John Wesley Powell*, Don D. Fowler, Robert C. Euler, Catherine S. Fowler, *John Wesley Powell and the Anthropology of the Canyon Country*, rev. by George W. White, 285; Hobart M. Smith, Rozella B. Smith, *Early Foundations of Mexican Herpetology. An Annotated and Indexed Bibliography of the Herpetological Publications of Alfredo Dugès, 1826–1910*, rev. by Thomas F. Glick, 551; Jean Théodoridès, *Un grand médecin et biologiste Casimir-Joseph Davaine (1812–1882)*, rev. by Glenn Vandervliet, 552; Richard Wagner, *Clemens von Pirquet. His Life and Work*, rev. by Stanley L. Becker, 147; Hans Wussing, *Die Genesis des abstrakten Gruppenbegriffes*, rev. by Thomas Hawkins, 418.

Contemporary Science—Albert Einstein, Hedwig and Max Born, *Briefwechsel, 1916–1955*, rev. by Paul Forman, 553; Albert Einstein, Arnold Sommerfeld, *Briefwechsel* (ed. by Armin Hermann), rev. by Paul Forman, 287; Donald Fleming, Bernard Bailyn (eds.), *The Intellectual Migration, Europe and America, 1930–1960*, rev. by Nathan Reingold, 147; Richard G. Hewlett, Francis Duncan, *Atomic Shield, 1947/1952. A History of the United States Atomic Energy Commission*, Vol. II, rev. by Lawrence Badash, 419; Zhores Aleksandrovich Medvedev, *The Rise and Fall of T. D. Lysenko* (trans. by I. Michael Lerner), Ivan Timofeevich Frolov, *Genetika i dialektika*, rev. by Loren R. Graham, 261; Abraham Pais, Glenn T. Seaborg, *et al.*, *Oppenheimer*, Heinar Kipphardt, *In the Matter of J. Robert Oppenheimer* (trans. by John Roberts), rev. by Lincoln Wolfenstein, 288; Donald K. Pickens, *Eugenics and the Progressives*, rev. by James Penick, 420; Fernando Riaza, S.J., *Teilhard de Chardin y la evolución biológica*, rev. by Thomas F. Glick, 421; Harlow S. Shapley, *Through Rugged Ways to the Stars*, rev. by Daniel H. Seeley, 148; Kurt Zierold, *Forschungsförderung in drei Epochen. Deutsche Forschungsgemeinschaft. Geschichte. Arbeitsweise. Kommentar*, rev. by Paul Forman, 149.

VOLUME NUMBER OF THE INDEX
SHOULD BE 61

Brief Index to Volume 60 of *Isis* 1970

Pagination according to issues

Spring, pp. 1–154 Fall, pp. 293–424
Summer, pp. 155–292 Winter, pp. 425–566

ACHINSTEIN, Peter; Stephen F. Barker (eds.), *The Legacy of Logical Positivism*, rev., 267.
Agassiz, Louis, *Studies on Glaciers, Preceded by the Discourse of Neuchâtel*, trans. Albert V. Carozzi, rev., 142.
Aldrich, Michele L., rev. of *Geology and Politics in Frontier Texas 1845–1909*, 417.
An Appeal for Preservation of Archival Materials, 108.
Aston, Margaret (The Fiery Trigon Conjunction: An Elizabethan Astrological Prediction), 159.
Ayer, A. J., *The Origins of Pragmatism*, rev., 143.

BADASH, Lawrence, rev. of *Atomic Shield, 1947/1952. A History of the United States Atomic Energy Commission*, Vol. II, 419; (ed.), *Rutherford and Boltwood: Letters on Radioactivity*, rev., 414.
Bailyn, Bernard. See Donald Fleming.
Baird, A. W. S. (Pascal's Idea of Nature), 297.
Baker, A. Albert, Jr., *Unsaturation in Organic Chemistry*, rev., 536.
Barker, Stephen F. See Peter Achinstein.
Basalla, George (ed.), *The Rise of Modern Science. External or Internal Factors?*, rev., 398.
Becker, Stanley L., rev. of *Clemens von Pirquet. His Life and Work*, 147.
Bennett, Adrian Arthur, *John Fryer. The Introduction of Western Science and Technology into Nineteenth-Century China*, rev., 280.
Berkeley, Dorothy Smith. See Edmund Berkeley.
Berkeley, Edmund; Dorothy Smith Berkeley, *Dr. Alexander Garden of Charles Town*, rev., 409.
Borghetty, Hector C. See Sidney M. Edelstein.
Born, Hedwig. See Albert Einstein.
Born, Max. See Albert Einstein.
Bowers, John Z., *Western Medical Pioneers in Feudal Japan*, rev., 399.
Brew, J. O. (ed.), *One Hundred Years of Anthropology*, rev., 129.
Brittain, James E., rev. of *The Beginnings of Satellite Communications* and *Early History of the Electron Microscope* and *Benjamin Peirce and the U.S. Coast Survey*, 274.
Brody, Boruch; Nicholas Capaldi (eds.), *Science: Men, Methods, Goals*, rev., 118.
Broneer, Paul (trans.), *Number Words and Number Symbols. A Cultural History of Numbers*, rev., 268.
Brown, Theodore M., rev. of *A History of Bubonic Plague in the British Isles*, 533.
Brožek, Josef, rev. of *Experimental Psychology: Its Scope and Method*, Vol. I: *History and Method*, 402.
Brush, Stephen G., rev. of *Essays in the History of Mechanics*, 115.
Bryant, Lynwood, rev. of *Zur Frühgeschichte der technischen Regelungen*, 272.
Bullough, Vern L., rev. of *The Medieval Treatises on Falconry and Hippiatry of Jacobellus Vitturi from Trogir*, 542.
Burke, John G. (Éloge: Charles Donald O'Malley (1907–1970)), 371; (Kirk and Causality in Edinburgh, 1805), 340.
Burmeister, Karl Heinz (Commentary on Edward Rosen), 385; *Georg Joachim Rhetikus, 1514–1574. Eine Bio-Bibliographie*. Band III: *Briefwechsel*, rev., 137.
Burstyn, Joan N., rev. of *The Sane Positivist: A Biography of Edward L. Thorndike*, 549.
Buttman, Günther, *The Shadow of the Telescope: A Biography of John Herschel*, rev., 415.

CANNON, Walter F., rev. of *The Cambridge Philosophical Society. A History 1819–1969*, 119; rev. of *The Earth in Decay. A History of British Geomorphology, 1578–1878*, 127.
Cantore, Enrico, *Atomic Order. An Introduction to the Philosophy of Microphysics*, rev., 535.
Capaldi, Nicholas. See Boruch Brody.
Cassedy, James H., *Demography in Early America. Beginnings of the Statistical Mind, 1600–1800*, rev., 410.
Carozzi, Albert V. (Robert Hooke, Rudolf Erich Raspe, and the Concept of "Earthquakes"), 85; (ed.), *Telliamed, or Conversations Between an Indian Philosopher and a French Missionary on the Diminution of the Sea*, rev., 139; (trans.), *Studies on Glaciers, Preceded by the Discourse of Neuchâtel*, rev., 142.

Chambers, David Wade, rev. of *For Science and National Glory. The Spanish Scientific Expedition to America, 1862–1866*, 283.
Churchill, Frederick B. (Hertwig, Weismann, and the Meaning of Reduction Division circa 1890), 429.
[Clausius] Waterston, Rankine, and Clausius on the Kinetic Theory of Gases, 105.
Clavelin, Maurice, *La philosophie naturelle de Galilée*, rev., 275.
Coleman, William (trans.), *The Interpretation of Animal Form. Essays by Jeffries Wyman, Carl Gegenbaur, E. Ray Lankester, Henri Lacaze Duthiers, Wilhelm His and H. Newell Martin 1868–1888*, rev., 145.
Colodny, Robert G., rev. of *The Legacy of Logical Positivism*, 267.
Costa, Albert B., rev. of *Unsaturation in Organic Chemistry*, 536.
Crellin, John K., *Medical Ceramics in the Wellcome Institute of the History of Medicine*, rev., 130.
Crescas, Rabbi Hasdai, (1340–1410) on Numerical Infinities, 224.
Crosland, Maurice (ed.), *Science in France in the Revolutionary Era, Described by Thomas Bugge*, rev., 412.
Crowe, Michael J., *A History of Vector Analysis. The Evolution of the Idea of a Vectorial System*, rev., 122.

Daub, Edward E. (Waterston, Rankine, and Clausius on the Kinetic Theory of Gases), 105.
Davies, Gordon L., *The Earth in Decay. A History of British Geomorphology, 1578–1878*, rev., 127.
von Dechend, Hertha. See Giorgio de Santillana.
Dexter, Ralph W., rev. of *Bankers, Bones, and Beetles. The First Century of the American Museum of Natural History*, 119.
Dicks, D. R., *Early Greek Astronomy to Aristotle*, rev., 541.
Dickson, F. P., *The Bowl of Night*, rev., 125.
Drake, Stillman, rev. of *La philosophie naturelle de Galilée*, 275.
Duncan, Francis. See Richard G. Hewlett.
Dyason, Diana, rev. of *Galen's System of Physiology and Medicine*, 133.

Eaton, Leonard K., rev. of *Principles of Architectural History: The Four Phases of Architectural Style, 1420–1900*, 131.
[Eber] Rheticus' Earliest Extant Letter to Paul Eber, 384.
Edelstein, Sidney M.; Hector C. Borghetty (trans.), *The Plictho of Gioanventura Rosetti*, rev., 277.
Egerton, Frank N., III, rev. of *Demography in Early America. Beginnings of the Statistical Mind, 1600–1800*, 410.
Einstein, Albert; Hedwig and Max Born, *Briefwechsel, 1916–1955*, rev., 553; Arnold Sommerfeld, *Briefwechsel*, ed. Armin Hermann, rev., 287.
[Empedocles] Pneumatic Action in the Klepsydra and Empedocles' Account of Breathing, 520.
[Eratosthenes] Identification of a Tract in an Arabic Manuscript: Eratosthenes on Two Mean Proportionals, 111.
Euler, Robert C. See Don D. Fowler.

Farber, Eduard (Errors in Chemical Identification: A Precautionary Note to the History of Chemistry), 379; *The Evolution of Chemistry: A History of Its Ideas, Methods, and Materials*, rev., 126.
Feather, Norman, rev. of *Rutherford and Boltwood: Letters on Radioactivity*, 414.
Ferguson, Walter Keene, *Geology and Politics in Frontier Texas 1845–1909*, rev., 417.
Fleming, Donald; Bernard Bailyn (eds.). *The Intellectual Migration, Europe and America, 1930–1960*, rev., 147.
Fletcher, John E. (Astronomy in the Life and Correspondence of Athanasius Kircher), 52.
Forbes, R. J. (ed.), *Martinus van Marum. Life and Works*, Vols. I & II, rev., 544.
Forman, Paul, rev. of *Forschungsförderung in drei Epochen. Deutsche Forschungsgemeinschaft. Geschichte. Arbeitsweise. Kommentar*, 149; rev. of Einstein-Sommerfeld *Briefwechsel*, 287; rev. of *Atomic Order. An Introduction to the Philosophy of Microphysics*, 535; rev. of Einstein-Born *Briefwechsel, 1916–1955*, 553.
Fowler, Cathrine S. See Don D. Fowler.
Fowler, Don D.; Robert C. Euler; Catherine S. Fowler, *John Wesley Powell and the Anthropology of the Canyon Country*, rev., 285.
Fraisse, Paul. See Jean Piaget.
Frankl, Paul, *Principles of Architectural History: The Four Phases of Architectural Style, 1420–1900*, rev., 131.
Frolov, Ivan Timofeevich, *Genetika i dialektika*, rev., 261.

Galileo, Scheiner, and the Interpretation of Sunspots, 498.
Ghiselin, Michael T., *The Triumph of the Darwinian Method*, rev., 144.
Gingerich, Owen, rev. of *The Codebreakers: The Story of Secret Writing*, 405.
Glick, Thomas F., rev. of *La introducción de la ciencia moderna en España* and *Medicina, historia, sociedad. Antología de clásicos médicos*, 265; rev. of *Teilhard de Chardin y la evolución biológica*, 421; rev, of *Early Foundations of Mexican Herpetology. An Annotated and Indexed Bibliography of the Herpetological Publications of Alfredo Dugès, 1826–1910*, 551.
Goerke, Heinz, *Carl von Linné, Arzt, Naturforscher, Systematiker*, rev., 278.

Goodison, Nicholas, *English Barometers 1680–1860. A History of Domestic Barometers and Their Makers*, rev., 120.
Graham, Loren R., rev. of *The Rise and Fall of T. D. Lysenko* and *Genetika i dialektika*, 261.
[Graunt] Huygens' Graph of Graunt's Data, 107.
[Griesinger] Nineteenth-Century Medical Psychology: Theoretical Problems in the Work of Griesinger, Meynert, and Wernicke, 355.
Grmek, Mirko Dražen (ed.), *The Medieval Treatises on Falconry and Hippiatry of Jacobellus Vitturi from Trogir*, rev., 542.
Gunter, P. A. Y. (ed. & trans.), *Bergson and the Evolution of Physics*, rev., 548.

HALL, A. Rupert, *The Cambridge Philosophical Society. A History 1819–1969*, rev., 119.
Hamarneh, Sami, rev. of *Medical Ceramics in the Wellcome Institute of the History of Medicine*, 130; rev. of *The Scientific Enterprise and Christian Faith*, 401
Hardy, Robert J., S[illegible]olin White.
Harrington, John W[illegible]rev. of *Towards a History of Geology*, 270.
Harris, R. W., *Reason and Nature in the Eighteenth Century*, rev., 280.
Hawkins, Thomas, rev. of *Die Genesis des abstrakten Gruppenbegriffes*, 418.
Heilbron, John L., rev. of *Francis Line, S.J. An Exiled English Scientist 1595–1675*, 397; rev. of *Martinus van Marum. Life and Work*, Vol. I, 544.
Hellman, Geoffrey, *Bankers, Bones, and Beetles. The First Century of the American Museum of Natural History*, rev., 119.
Hermann, Armin (ed.), Einstein-Sommerfeld *Briefwechsel*, rev., 287.
Hertwig, Weismann, and the Meaning of Reduction Division circa 1890, 429.
Hewlett, Richard G.; Francis Duncan, *Atomic Shield, 1947/1952. A History of the United States Atomic Energy Commission*, Vol. II, rev., 419.
Historical Studies in the Physical Sciences, Vol. I, rev., 537.
Holt, Niles R. (A Note on Wilhelm Ostwald's "Energism"), 386.
Hooke, Robert, Rudolf Erich Raspe, and the Concept of "Earthquakes," 85.
Huygens' Graph of Graunt's Data, 107.

IHDE, Aaron J., rev. of *Alfred Werner, Founder of Coordination Chemistry* and *Werner Centennial* and *Classics in Coordination Chemistry. Part 1: The Selected Papers of Alfred Werner*, 282.
The Interpretation of Animal Form. Essays by Jeffries Wyman, Carl Gegenbaur, E. Ray Lankester, Henri Lacaze Duthiers, Wilhelm His and H. Newell Martin 1868–1888, trans. William Coleman, rev., 145.

JAFFE, Bernard (The Moseley Photograph), 254.
Jaggi, O. P., *History of Science and Technology in India*, Vol. I: *Dawn of Indian Technology (Pre- and Proto-Historic Period)*, and Vol. II: *Dawn of Indian Science (Vedic and Upanishadic Period)*, rev., 407.
Jeeves, Malcolm A., *The Scientific Enterprise and Christian Faith*, rev., 401.
Jeffries, Theodore W., rev. of *Dr. Alexander Garden of Charles Town*, 409.
Jensen, Claus (Identification of a Tract in an Arabic Manuscript: Eratosthenes on Two Mean Proportionals), 111.
Johannes de Muris' Autograph of the *De arte mensurandi*, 389.
Jonçich, Geraldine, *The Sane Positivist: A Biography of Edward L. Thorndike*, rev., 549.
Jones, William Powell, rev. of *The High Firmament: A Survey of Astronomy in English Literature*, 121; rev. of *John Wilkins 1614–1672: An Intellectual Biography*, 413; rev. of *Chaucer and the Country of the Stars: Poetic Uses of Astrological Imagery*, 543.

KAHN David, *The Codebreakers. The Story of Secret Writing*, rev., 405.
Kangro, Hans, rev. of *Historical Studies in the Physical Sciences*, Vol. I, 537.
Kargon, Robert H., rev. of *A Portrait of Isaac Newton*, 141.
Kauffman, George B. (Arturo Miolati (1869–1956)), 241; rev. of *The Evolution of Chemistry: A History of Its Ideas, Methods, and Materials*, 126; *Alfred Werner, Founder of Coordination Chemistry*, rev., 282; (ed.), *Classics in Coordination Chemistry, Part 1: The Selected Papers of Alfred Werner*, rev., 282; (ed.), *Werner Centennial*, rev., 282.
Kipphardt, Heinar, *In the Matter of J. Robert Oppenheimer*, trans. John Roberts, rev., 288.
Kircher, Athanasius, Astronomy in the Life and Correspondence of, 52.
Klein, Jacob, *Greek Mathematical Thought and the Origin of Algebra*, rev., 132.
von Klobusitzky, Dionysio (Contribution to the History of Paper Electrophoresis), 255.
Koehn, Donald R., rev. of *The Origins of Pragmatism*, 143.
Koppelman, Elaine H., rev. of *A History of Vector Analysis. The Evolution of the Idea of a Vectorial System*, 122.
Körber, Hans-Günther, rev. of *Invention of the Meteorological Instruments* and *Catalog of Meteorological Instruments in the Museum of History and Technology*, 400.
Kuhn, Dorothea (Das Cotta-Archiv im Schiller-Nationalmuseum zu Marbach am Neckar. Korrespondenz mit deutschen Naturforschen im 19. Jahrhundert), 103.

LAM Lay Yong (The Geometrical Basis of the Ancient Chinese Square-Root Method), 92.

Landes, David S., *The Unbound Prometheus. Technological Change and Industrial Development in Western Europe from 1750 to the Present*, rev., 263.
Lehman, Hugh, rev. of *The Triumph of the Darwinian Method*, 144.
Leighly, John, rev. of *Alexandre de Humboldt, historien et géographe de l'Amérique espagnole 1799–1804*, 564.
Lenzen, V. F., *Benjamin Peirce and the U.S. Coast Survey*, rev., 274.
Lerner, I. Michael (trans.), *The Rise and Fall of T. D. Lysenko*, rev., 261.
Levey, Martin, rev. of *Mathematical Terminology in Hebrew Scientific Literature of the Middle Ages*, 135.
Libbrecht, Ulrich, rev. of *Chiu chang suan shu. Neun Bücher arithmetischer Technik. Ein chinesisch Rechenbuch für den praktischen Gebrauch aus der frühen Hanzeit (202 v. Chr. bis 9 n. Chr.)*, 408.
Lo, Karl, rev. of *Chinese Alchemy: Preliminary Studies*, 136.
López Piñero, J. M., *La introducción de la ciencia moderna en España*, rev., 265; *Medecina, historia, sociedad. Antologia de clásicos médicos*, rev., 265.
Lorentz, H. A., and the Electromagnetic View of Nature, 458.
[Lyell] The Strategy of Lyell's *Principles of Geology*, 5.
Lyon, John (The Search for Fossil Man: Cinq Personnages à la Recherche du Temps Perdu), 68.

de MAILLET, Benoît, *Telliamed, or Conversations Between an Indian Philosopher and a French Missionary on the Diminution of the Sea*, ed. Albert V. Carozzi, rev., 139.
Manuel, Frank E., *A Portrait of Issac Newton*, rev., 141.
Mark, Joan T., rev. of *One Hundred Years of Anthropology*, 129.
Marton, L., *Early History of the Electron Microscope*, rev., 274.
Marx, Otto M. (Nineteenth-Century Medical Psychology: Theoretical Problems in the Work of Griesinger, Meynert, and Wernicke), 355.
Mayr, Otto, *Zur Frühgeschichte der technischen Regelungen*, rev., 272.
McCormmach, Russell (H. A. Lorentz and the Electromagnetic View of Nature), 458.
McKee, Edwin D. See Mary C. Rabbitt.
Meadows, A. J., *The High Firmament: A Survey of Astronomy in English Literature*, rev., 121.
Medvedev, Zhores Aleksandrovich, *The Rise and Fall of T. D. Lysenko*, trans. I. Michael Lerner, rev., 261.
Menninger, Karl, *Number Words and Number Symbols. A Cultural History of Numbers*, trans. Paul Broneer, rev., 268.
[Meynert] Nineteenth-Century Medical Psychology: Theoretical Problems in the Work of Griesinger, Meynert, and Wernicke, 355.
Middleton, W. E. Knowles, rev. of *English Barometers 1680–1860. A History of Domestic Barometers and Their Makers*, 120; *Catalog of Meteorological Instruments in the Museum of History and Technology* and *Invention of the Meteorological Instruments*, rev., 400.
Miller, Robert Ryal, *For Science and National Glory. The Spanish Scientific Expedition to America, 1862–1866*, rev., 283.
Minguet, Charles, *Alexandre de Humboldt, historien et géographe de l'Amérique espagnole 1799–1804*, rev., 546.
Miolati, Arturo (1869–1956), 241.
Moorehead, Alan, *Darwin and the Beagle*, rev., 284.
Moseley Photograph, 254.
Musson, A. E.; Eric Robinson, *Science and Technology in the Industrial Revolution*, rev., 263.

NEU, John, rev. of *Éléments de bibliographie de l'histoire des sciences et des techniques*, 266.
News
Announcements, 113, 396, 531
Annual Meeting, 1969, 114
Dissertations, 113, 258, 531
Fellowships and Grants, 113, 258, 396, 531
Meetings, 114, 258
Teaching the History of Science, 258, 531
[Newton] A Critical Analysis of Newton's Work on Diffraction, 188.
North, J. D., rev. of *Le Axiome de Paralleles de Euclides a Hilbert*, 269
Notes on Contributors, 152, 290, 423, 556.

O'BRIEN, Charles F. (*Eozoön Canadense*, "The Dawn Animal of Canada"), 206.
O'Gorman, James F. (ed. & trans.), *The Principles of Architectural History: The Four Phases of Architectural Style, 1420–1900*, rev., 131.
O'Malley, Charles Donald (1907–1970), Éloge by John G. Burke, 371.
Ordway, Frederick I., III. See Wernher von Braun.
Ospovat, Alexander M., rev. of *Telliamed, or Conversations Between an Indian Philosopher and a French Missionary on the Diminution of the Sea*, 139.
[Ostwald] A Note on Wilhelm Ostwald's "Energism," 386.

PAGE, Leroy E., rev. of *Studies on Glaciers, Preceded by the Discourse of Neuchatel*, 142.
Pais, Abraham; Glenn T. Seaborg, *et al., Oppenheimer*, rev., 288.
Pascal's Idea of Nature, 297.
Penick, James, rev. of *Eugenics and the Progressives*, 420.

Peter of Abano. The *Expositio Problematum Aristotelis* of, 321.
Piaget, Jean; Paul Fraisse; Maurice Reuchlin, *Experimental Psychology: Its Scope and Method*, Vol. I: *History and Method*, rev., 402.
Pickens, Donald K., *Eugenics and the Progressives*, rev., 420.
Pierce, J. R., *The Beginnings of Satellite Communications*, rev., 274.
Pingree, David, rev. of *History of Science and Technology in India*, Vol. I: *Dawn of Indian Technology (Pre- and Proto-Historic Period)* and Vol. II: *Dawn of Indian Science (Vedic* and *Upanishadic Period)*, 407.

RABBITT, Mary C.; Edwin D. McKee, *et al.*, *The Colorado River Region and John Wesley Powell*, rev., 285.
Rabinovitch, Nachum L. (Rabbi Hasdai Crescas (1340–1410) on Numerical Infinities), 224.
[Rankine] Waterston, Rankine, and Clausius on the Kinetic Theory of Gases, 105.
Rappaport, Rhoda, rev. of *Science in France in the Revolutionary Era, Described by Thomas Bugge*, 412.
[Raspe] Robert Hooke, Rudolf Erich Raspe, and the Concept of "Earthquakes," 85.
Rauschenberg, Roy A., rev. of *Martinus van Marum. Life and Work*, Vol. II, 545.
Reilly, Conor, S.J., *Francis Line, S.J. An Exiled English Scientist 1595–1675*, rev., 397.
Reingold, Nathan, rev. of *The Intellectual Migration, Europe and America, 1930–1960*, 147; rev. of *A Selection of Manuscript Collections at American Repositories*, 535.
Reti, Ladislao, rev. of *The Plictho of Gioanventura Rosetti*, 277.
Reuchlin, Maurice. See Jean Piaget.
Rheticus' Earliest Extant Letter to Paul Eber, 384.
Riaza, Fernando, S.J., *Teilhard de Chardin y la evolución biológica*, rev., 421.
Roberts, John (trans.), *In the Matter of J. Robert Oppenheimer*, rev., 288.
Robinson, Eric. See A. E. Musson.
Roebuck, Carl (ed.), *The Muses at Work. Arts, Crafts, and Professions in Ancient Greece and Rome*, rev., 406.
Roger, Jacques, rev. of *Carl von Linné, Arzt, Naturforscher, Systematiker*, 278.
Ronan, Colin A., *Edmond Halley: Genius in Eclipse*, rev., 547.
Rosen, Edward (Rheticus' Earliest Extant Letter to Paul Eber), 384; rev. of *Georg Joachim Rhetikus, 1514–1574. Eine Bio-Bibliographie.* Band III: *Briefwechsel*, 137.
Rosetti, Gioanventura, *The Plictho*, trans. Sidney M. Edelstein and Hector C. Borghetty, rev., 277.
Rousseau, G. S., rev. of *Reason and Nature in the Eighteenth Century*, 280.
Rudwick, Martin J. S. (The Strategy of Lyell's *Principles of Geology*), 5.
Russo, François, *Éléments de bibliographie de l'histoire des sciences et des techniques*, rev., 266.

SAIDAN, A. S., rev. of *The Concept of Number*, 124.
de Santillana, Giorgio; Hertha von Dechend, *Hamlet's Mill. An Essay on Myth and the Frame of Time*, rev., 540.
Sarfatti, Gad B., *Mathematical Terminology in Hebrew Scientific Literature of the Middle Ages*, rev., 135.
[Scheiner] Galileo, Scheiner, and the Interpretation of Sunspots, 498.
Schlagel, Richard H., rev. of *Bergson and the Evolution of Physics*, 548.
Schneer, Cecil J. (ed.), *Towards a History of Geology*, rev., 270.
Scriba, Christoph J., rev. of *Greek Mathematical Thought and the Origin of Algebra*, 132; *The Concept of Number*, rev., 124.
Seaborg, Glenn T. See Abraham Pais.
Seeley, Daniel H., rev. of *Through Rugged Ways to the Stars*, 148.
Seidenberg, A., rev. of *Number Words and Number Symbols. A Cultural History of Numbers*, 268.
Shapiro, Barbara J., *John Wilkins 1614–1672: An Intellectual Biography*, rev., 413.
Shapley, Harlow S., *Through Rugged Ways to the Stars*, rev., 148.
Shea, William R. (Galileo, Scheiner, and the Interpretation of Sunspots), 498.
Shrewsbury, J. F. D., *A History of Bubonic Plague in the British Isles*, rev., 533.
Siegel, Rudolf E., *Galen's System of Physiology and Medicine*, rev., 133.
Siraisi, Nancy G. (The *Expositio Problematum Aristotelis* of Peter of Abano), 321.
Sivin, Nathan, rev. of *John Fryer. The Introduction of Western Science and Technology into Nineteenth-Century China*, 280; *Chinese Alchemy: Preliminary Studies*, rev., 136.
Sjöstedt, C. E. (ed.), *Le Axiome de Paralleles de Euclides a Hilbert*, rev., 269.
Smith, Hobart M.; Rozella B. Smith, *Early Foundations of Mexican Herpetology. An Annotated and Indexed Bibliography of the Herpetological Publications of Alfredo Dugès, 1826–1910*, rev., 551.
Smith, Rozella B. See Hobart M. Smith.
Snelders H. A. M. (The Influence of the Dualistic System of Jakob Joseph Winterl (1732–1809) on the German Romantic Era), 231.
Snyder, Walter F., rev. of *The Muses at Work: Arts, Crafts, and Professions in Ancient Greece and Rome*, 406.
Sommerfeld, Arnold. See Albert Einstein.
Spencer, J. Brookes (On the Varieties of Nineteenth-Century Magneto-Optical Discovery), 34.

Stuewer, Roger H. (A Critical Analysis of Newton's Work on Diffraction), 188.
Swenson, Loyd S., Jr., rev. of *History of Rocketry and Space Travel*, revised ed., 404.

THACKRAY, Arnold, rev. of *The Unbound Prometheus. Technological Change and Industrial Development in Western Europe from 1750 to the Present* and *Science and Technology in the Industrial Revolution*, 263; rev. of *The Rise of Modern Science, External or Internal Factors?*, 398.
Theisen, Wilfred R. (The Monastic Manuscript Microfilm Library, Collegeville, Minnesota), 111.
Théodoridès, Jean, *Un grand médecin et biologist Casimir-Joseph Davaine (1812–1882)*, rev., 552.
Thoren, Victor E., rev. of *The Bowl of Night*, 125; rev. of *Early Greek Astronomy to Aristotle*, 541.
Truesdell, C., *Essays in the History of Mechanics*, rev., 115.

USCHMANN, G. R., rev. of *The Interpretation of Animal Form. Essays by Jeffries Wyman, Carl Gegenbaur, E. Ray Lankester, Henri Lacaze Duthiers, Wilhelm His and H. Newell Martin 1868–1888*, 145.

VANDERVLIET, Glenn, rev. of *Un grand médecin et biologiste Casimir-Joseph Davaine (1812–1882)*, 552.
Victor, Stephen (Johannes de Muris' Autograph of the *De arte mensurandi*), 389.
Vogel, Kurt (trans.), *Chiu chang suan shu. Neun Bücher arithmetischer Technik. Ein chinesisch Rechenbuch für den praktischen Gebrauch aus der frühen Hanzeit (202 v. Chr. bis 9 n. Chr.)*, rev., 408.
von Braun, Wernher; Frederick I. Ordway III, *History of Rocketry and Space Travel*, revised ed., rev., 404.

WAGNER, Richard, *Clemens von Pirquet. His Life and Work*, rev., 147.
Warner, Deborah Jean, rev. of *Edmond Halley: Genius in Eclipse*, 547.
Warnow, Joan Nelson, *A Selection of Manuscript Collections at American Repositories*, rev., 535.
Waterston, Rankine, and Clausius on the Kinetic Theory of Gases, 105.
[Weismann] Hertwig, Weismann, and the Meaning of Reduction Division circa 1890, 429.
Weitzel, Ronald L., rev. of *The Shadow of the Telescope: A Biography of John Herschel*, 415.
[Wernicke] Nineteenth-Century Medical Psychology: Theoretical Problems in the Work of Griesinger, Meynert, and Wernicke, 355.
White, Colin; Robert J. Hardy (Huygens' Graph of Graunt's Data), 107.
White, George W., rev. of *The Colorado River Region and John Wesley Powell* and *John Wesley Powell and the Anthropology of the Canyon Country*, 285.
White, Lynn, jr., rev. of *Hamlet's Mill. An Essay on Myth and the Frame of Time*, 540.
[Winterl] The Influence of the Dualistic System of Jakob Joseph Winterl (1732–1809) on the German Romantic Era, 231.
Wolf, Robert G., rev. of *Science: Men, Methods, Goals*, 118.
Wolfenstein, Lincoln, rev. of *Oppenheimer* and *In the Matter of J. Robert Oppenheimer*, 288.
Wood, Chauncey, *Chaucer and the Country of the Stars: Poetic Uses of Astrological Imagery*, rev., 543.
Worthen, Thomas D. (Pneumatic Action in the Klepsydra and Empedocles' Account of Breathing), 520.
Wussing, Hans, *Die Genesis des abstrakten Gruppenbegriffes*, rev., 410.

YEN, Florette, rev. of *Western Medical Pioneers in Feudal Japan*, 399.

ZIEROLD, Kurt, *Forschungsförderung in drei Epochen. Deutsche Forschungsgemeinschaft. Geschichte. Arbeitsweise. Kommentar*, rev., 149.
Zirkle, Conway, rev. of *Darwin and the Beagle*, 284.